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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/048,116	02/27/2002	Nicolas Glaichenhaus	1721-47	6350
75	90 10/06/2004		EXAMINER	
Nixon & Vanderhye			DIBRINO, MARIANNE NMN	
8th Floor 1100 North Glebe Road		ART UNIT	PAPER NUMBER	
Arlington, VA	22201-4714		1644	
		DATE MAILED: 10/06/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

. ÷ (		Application No.	Applicant(s)				
Office Action Summary		10/048,116	GLAICHENHAUS ET AL.				
		Examiner	Art Unit				
		DiBrino Marianne	1644				
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)🖂	1) Responsive to communication(s) filed on <u>28 January 2002</u> .						
	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4) Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are rejected.  7) Claim(s) is/are objected to.							
8)⊠	Claim(s) 1-11 are subject to restriction and/or el	ection requirement.					
Application	on Papers						
9) 🗆 -	The specification is objected to by the Examiner.		`				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
	nder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(	s)						
Notice Notice Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary (F Paper No(s)/Mail Date 5) Notice of Informal Pate 6) Other:	)				

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## **DETAILED ACTION**

1. Applicant's amendment filed 1/28/02 is acknowledged and has been entered.

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

- I. Claims 1-3, drawn to soluble recombinant proteins
- II. Claims 4-6, drawn to nucleotide sequences, expression vectors and host cells thereof
- III. Claims 7-10, drawn to a method for counting and/or purifying and/or enriching and/or characterizing phenotypically T lymphocytes that react with a given antigen
- IV. Claim 11, drawn to populations of T lymphocytes enriched with a given type of T cells.
- 3. The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Claim 11 of the instant application does not provide a technical feature that is distinguished over the prior art, as evidenced by Applicant's IDS references WO 99/09064A or WO 98/0674A or WO 97/28191A, said references corresponding to references D1, D2 and D4 as enunciated in the international preliminary examination report.

To reiterate, WO 99/09064A teaches a population of purified transgenic T cells expressing RCR 14-3-1 and recognizing a particular antigen: the HA 110-120/I-Ed complex, the said T cells being suitable for use in cellular therapy. WO 98/0674A teaches a population of T cells reactive with an MHC/peptide complex that are purified by FACs. WO 97/28191A teaches T cell clone K68-36 that is specific for an antigen from NP.

Therefore, the instant invention lacks Unity of Invention.

4. If Applicant elects the Invention of Group I, Applicant is further required to (1) elect a single disclosed species of recombinant protein (a specific recombinant protein, for example, a dimer of a class II MHC alpha chain comprising a leucine zipper and a class II MHC beta chain comprising a leucine zipper and an antigenic peptide bound noncovalently to each class II binding site of the dimeric class II protein) to which claims would be restricted if no generic

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claim is finally held to be allowable and (2) to list all claims readable thereon including those subsequently added.

These species are distinct because their structures are different.

5. If Applicant elects the Invention of Group II, Applicant is further required to (1) elect a single disclosed species of nucleotide sequence, vector and host cell thereof, encoding a specific recombinant protein (a *specific recombinant protein*, for example, a dimer of a class II MHC alpha chain comprising a leucine zipper and a class II MHC beta chain comprising a leucine zipper and an antigenic peptide bound noncovalently to each class II binding site of the dimeric class II protein) to which claims would be restricted if no generic claim is finally held to be allowable and (2) to list all claims readable thereon including those subsequently added.

These species are distinct because their structures are different.

6. If Applicant elects the Invention of Group III, Applicant is further required to (1) elect a single disclosed species of recombinant protein for use in the claimed method and specific method steps (a *specific recombinant protein*, for example, a dimer of a class II MHC alpha chain comprising a leucine zipper and a class II MHC beta chain comprising a leucine zipper and an antigenic peptide bound noncovalently to each class II binding site of the dimeric class II protein *and* for example, a method comprising purifying antigen-specific T lymphocytes and characterizing the phenotype) to which claims would be restricted if no generic claim is finally held to be allowable and (2) to list all claims readable thereon including those subsequently added.

These species are distinct because their structures are different.

7. <u>In addition, If Applicant elects the Invention of Group III</u>, Applicant is further required to (1) elect a single disclosed species of T lymphocytes specific for a specific MHC/peptide (for example, class I MHC/peptide) to which claims would be restricted if no generic claim is finally held to be allowable and (2) to list all claims readable thereon including those subsequently added.

These species are distinct because their structures are different.

- 8. Applicant is required under 35 U.S.C. § 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.
- 9. Applicant is advised that a response to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

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- 10. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 C.F.R. § 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. M.P.E.P. § 809.02(a).
- 11. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. § 103 of the other invention.
- 12. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.
- 13. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).
- 14. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Marianne DiBrino whose telephone number is 571-272-0842. The Examiner can normally be reached on Monday, Wednesday and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Christina Y. Chan, can be reached on 571-272-0841. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marianne DiBrino, Ph.D.

Patent Examiner

Group 1640

Technology Center 1600

September 24, 2004

CHRISTINA CHAN

PERVISORY PATENT EXAMINER
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